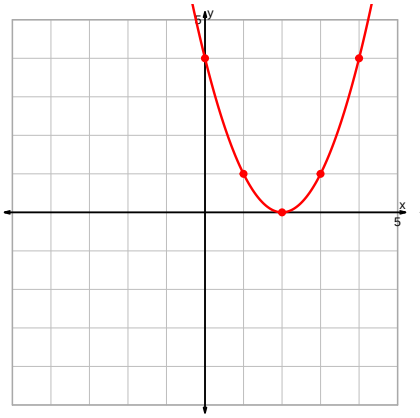
NAME: DATE:

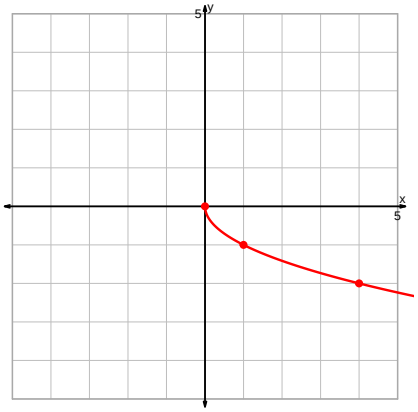
Unit-2 Reduced Mastery Assessment (version 313)

Question 1 (20 points)

Graph the equations accurately. For each integer-integer point on the parent, indicate the corresponding point precisely. Also, with dashed lines, indicate any asymptotes.

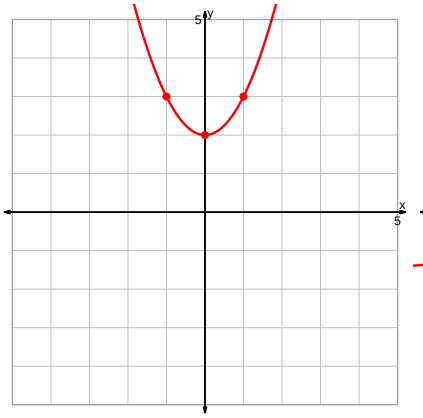
$y = (x-2)^2$

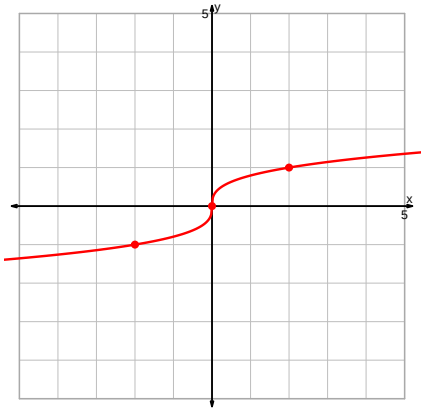




$y = -\sqrt{x}$

$y = x^2 + 2$

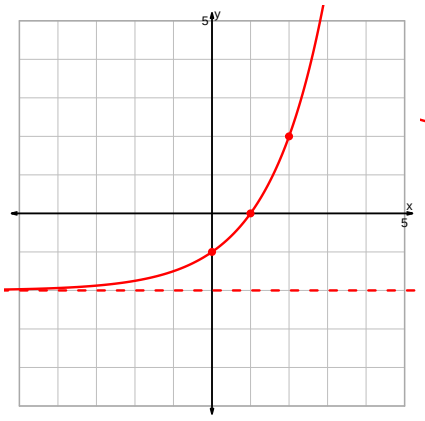


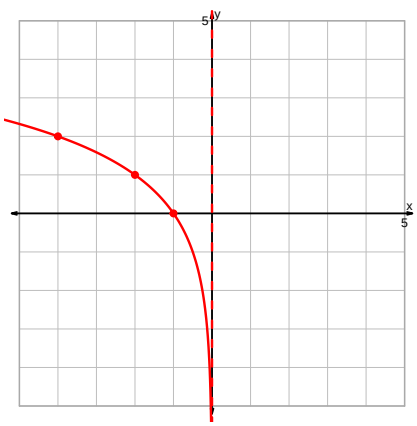


$y = \sqrt[3]{\frac{x}{2}}$

Question 2 continued...

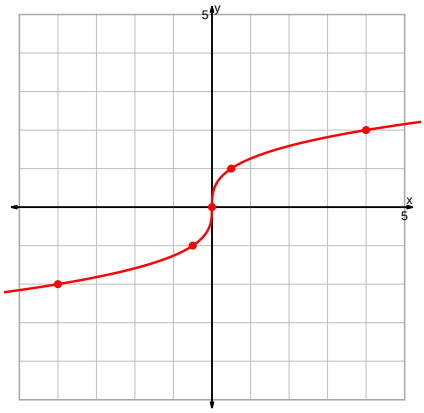
$y = 2^x - 2$

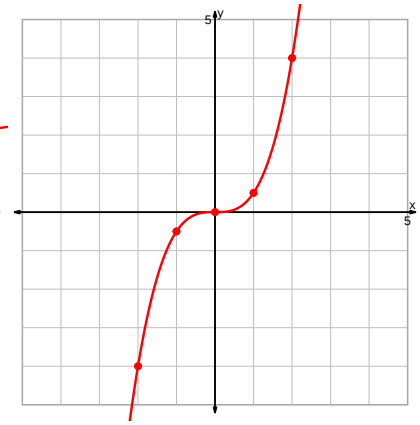




$y = \log_2(-x)$

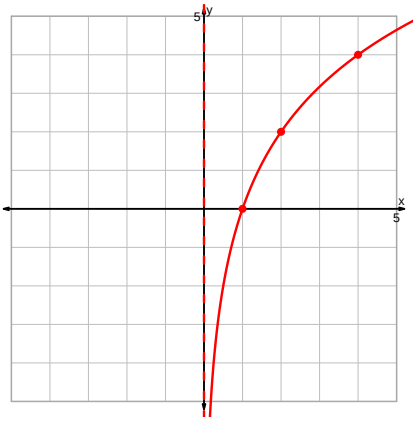
$y = \sqrt[3]{2x}$

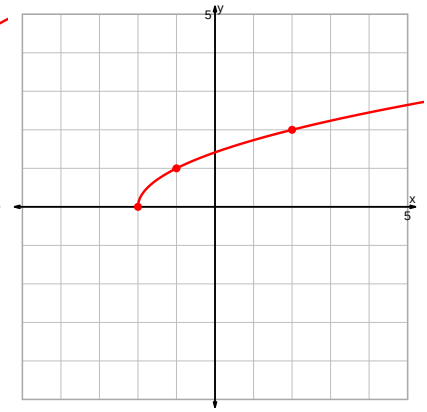




$y = \frac{x^3}{2}$

$y = 2 \cdot \log_2(x)$

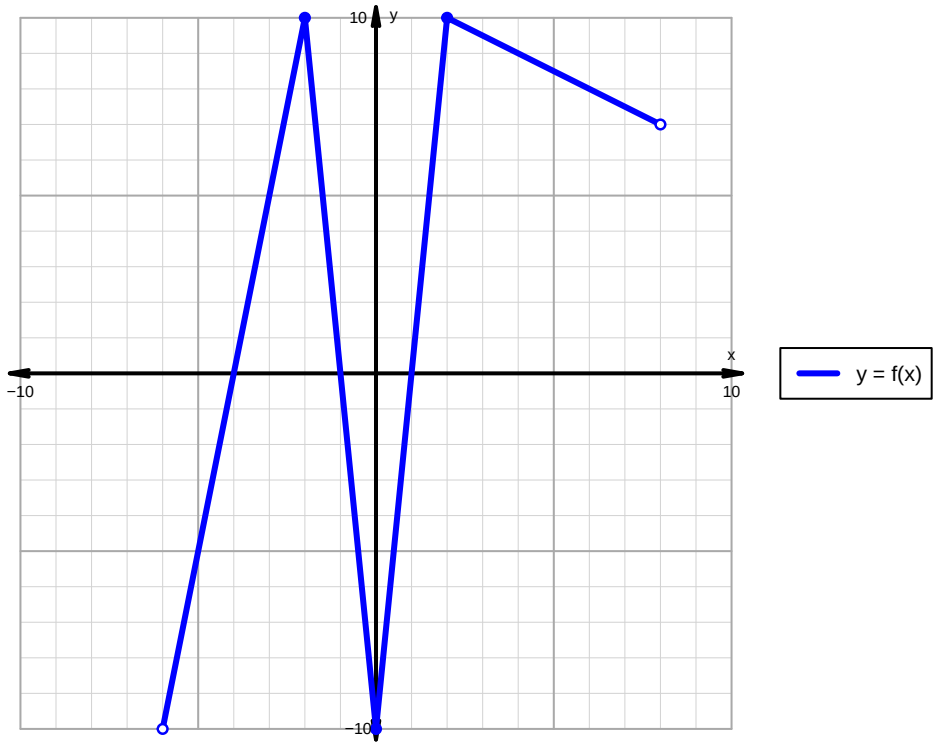




$y = \sqrt{x+2}$

Question 2 (20 points)

A function is graphed below.



Indicate the following intervals using interval notation.

Feature	Where
Positive	$(-4,-1)\cup(1,8)$
Negative	$(-6,-4)\cup(-1,1)$
Increasing	$(-6,-2)\cup(0,2)$
Decreasing	$(-2,0)\cup(2,8)$
Domain	$(-6,8)$
Range	$(-10,10)$